



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: December 4, 2012

RE: ADM Grain / 017-32464-00017

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER-AM.dot12/3/07



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Karena S. Musgrave  
ADM Grain Company - Logansport Terminal  
2626 S 275 W  
Logansport, Indiana 46947

December 4, 2012

Re: 017-32464-00017  
First Administrative Amendment to  
F017-30863-00017

Dear Karena S. Musgrave:

ADM Grain Company - Logansport Terminal was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F017-30863-00017 on July 31, 2012 for a stationary grain terminal located at 2626 S 275 W, Logansport, Indiana. On October 30, 2012, the Office of Air Quality (OAQ) received an application from the source requesting to add one (1) enclosed grain conveyor similar to several of its existing units. The source also requested to change the description of its facility to clarify that it is classified as a country grain elevator, rather than a grain terminal. This distinction affects rule applicability and calculation methods.

- (a) requesting that the permit be amended to change the descriptive information concerning the description of the entire source. The permit currently describes the source as a stationary grain terminal. Definitions used in the emissions calculations, in Appendix A, are used to standardize throughput for grain elevators, for potential to emit calculations purposes. According to that definition, a grain terminal stores grain that has been purchased from other grain elevators. A country grain elevator is described as storage of grain that has been purchased primarily from area farmers. This source actually purchases 95% of its grain from area farmers, and, therefore, is actually a country grain elevator. Section A.1, of the permit has been changed to reflect this description change. Pursuant to 326 IAC 2-8-10(a)(6), this change is considered an administrative amendment because it revises descriptive information, where the revision will not trigger a new applicable requirement or violate a permit term.
- (b) requesting to add one enclosed grain conveyor to its permit. The new unit will be of the same type that are already permitted and will comply with the same applicable requirements and permit terms and conditions as the existing units. The modification will not result will not the potential to emit greater than the thresholds in 325 IAC 2-2 (Prevention of Significant Deterioration (PSD)) or 326 IAC 2-3 (Emission Offset). Therefore, pursuant to 326 IAC 2-8-10(a)(14), this change to the permit is considered an administrative amendment. Sections A.2, D.1 and E.1, and appropriate conditions, of the permit have been changed to reflect this administrative amendment. Numbering of subsequent emission units has been adjusted as well.

The following is the new emission unit:

- (a) One (1) enclosed fill conveyor, identified as WF23, approved for construction in 2012, each with a maximum capacity of 25,000 bushels of grain per hour.

Under 40 CFR 60, Subpart DD, the above listed emission unit is considered affected facility.

The PTE of the modification is as follows:

Process/ Emission Unit	PTE of Proposed Modification (tons/year)									
	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e	Total HAPs	Worst Single HAP
Enclosed fill conveyor WF23	70.76	39.44	6.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total PTE of Proposed Modification</b>	<b>70.76</b>	<b>39.44</b>	<b>6.73</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

- (a) The source has existing limits for its Headhouse and Internal Handling conveyors, which now include the new enclosed fill conveyor WF23. These existing limits are 2.31 lbs/hr for PM emissions after control and 2.31 lbs/hr for PM10 after control. These existing limits will not change with this revision, and, therefore, the source will remain a FESOP. Pursuant to 326 IAC 2-8-10(a)(14), this revision will be issued an administrative amendment because the new enclosed fill conveyor WF23 is like several other units already permitted, will be subject to the same applicable requirements as the existing units, will be subject to the same permit terms and conditions as the existing units, and will have the potential to emit less than the thresholds under 326 IAC 2-2 and 326 IAC 2-3.
- (b) No new federal rules are applicable to this source included in this administrative amendment. However, the new enclosed grain conveyor will be subject to the same New Source Performance Standards (NSPS) 40 CFR 60, Subpart DD, for Grain Elevators, the same as the existing emission units at this source.
- (c) The following state rules are applicable to this new enclosed fill conveyor:

(1) 326 IAC 6-3-2 (Particulate Matter Emissions Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(b), the requirements of 326 IAC 6-3-2 are applicable to the new enclosed fill conveyor WF23, and the unit shall not exceed the allowable emission rates listed in the following table:

Emission Unit Description	Control Device	Maximum Process Weight Rate (PWR) (tons/hr)	326 IAC 6-3-2 Allowable PM Emissions (lb/hr)
Enclosed Fill Conveyor WF23	Enclosed	725	73.50

These pounds per hour limitations were calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

When the process weight rate exceeds two hundred (200) tons per hour, the maximum allowable emission may exceed the emission rate derived by the equation above, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

- (2) The new enclosed fill conveyor shall be subject to the same permit terms and conditions as the other conveyors in the Headhouse and Internal Handling area.

Compliance with these conditions, when combined with the potential to emit PM, PM10, and PM2.5 from all other emission units at the entire source shall limit the source-wide emissions to less than 250 tons per year, and PM10 and PM2.5 emissions to less than 100 tons per year, and PM10 and PM2.5 emissions to less than 100 tons per year, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70 Permits), not applicable.

**PTE of the Entire Source After Issuance of the FESOP Administrative Amendment**

The table below summarizes the potential to emit of the entire source, reflecting existing throughput limits for the grain. As discussed above, the new enclosed conveyor will operate within the same throughput limits as the existing units, so there is no change to the emissions after issuance of the administrative amendment.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Administrative Amendment (tons/year)									
	PM	PM <sub>10</sub> *	PM <sub>2.5</sub> **	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e	Total HAPs	Worst Single HAP
Grain Receiving	28.04	28.04	5.80	0.00	0.00	0.00	0.00	0.00	0.00	--
Headhouse and Internal Handling			6.73	0.00	0.00	0.00	0.00	0.00	0.00	--
Rail or Truck Shipping			2.84	0.00	0.00	0.00	0.00	0.00	0.00	--
Grain Cleaning	35.38	19.72	3.36	0.00	0.00	0.00	0.00	0.00	0.00	--
Grain Drying	66.00	16.50	2.82	0.00	0.00	0.00	0.00	0.00	0.00	--
Grain Storage Bins	14.50	3.65	0.64	0.00	0.00	0.00	0.00	0.00	0.00	--
Storage Piles	10.27	4.47	0.76	0.00	0.00	0.00	0.00	0.00	0.00	--
Natural Gas Combustion	0.35	1.39	1.39	0.11	18.31	1.01	15.38	22,104	0.35	0.33 Hexane
Unpaved Roadways	10.45	2.66	2.66	0.00	0.00	0.00	0.00	0.00	0.00	--
<b>Total PTE of Entire Source</b>	<b>165.00</b>	<b>76.45</b>	<b>27.01</b>	<b>0.11</b>	<b>18.31</b>	<b>1.01</b>	<b>15.38</b>	<b>22,104</b>	<b>0.35</b>	<b>0.33 Hexane</b>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000 CO <sub>2</sub> e	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000 CO <sub>2</sub> e	NA	NA

negl. = negligible  
 \*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".  
 \*\*PM<sub>2.5</sub> listed is direct PM<sub>2.5</sub>.

FESOP and PSD Minor Source Status

This existing source is still not a Title V major stationary source, because the potential to emit criteria pollutants from the entire source will continue to be limited to less than the Title V major source threshold levels. In addition, this existing source is still not a major source of HAPs, as defined in 40 CFR 63.41, because the potential to emit HAPs is still less than ten (10) tons per year for a single HAP and twenty-five (25) tons per year of total HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act and is subject to the provisions of 326 IAC 2-8 (FESOP).

This existing source is still not a major stationary source under PSD (326 IAC 2-2), because the

potential to emit PM is still limited to less than 250 tons per year, the emissions of all attainment criteria pollutants are less than two hundred fifty (<250) tons per year, emissions of GHGs are less than one hundred thousand (<100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year, and it is not in one of the twenty-eight (28) listed source categories.

Pursuant to 326 IAC 2-8-4, and in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable, the Permittee shall continue to comply with the permit terms and conditions in its FESOP No. 017-32464-00017, issued July 31, 2012.

Pursuant to the provisions of 326 IAC 2-8-10, the permit is hereby administratively amended as follows with the deleted language as ~~strikeouts~~ and new language **bolded**:

A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary ~~grain terminal~~ **country grain elevator** with a maximum throughput of 40,000,000 bushels of grain per year and total grain storage capacity of greater than 2.5 million bushels.

...

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

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Headhouse and Internal Handling

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- (o) Three (3) enclosed fill conveyors, identified as WF20, WF21, and WF22, approved for construction in 2012, each with a maximum capacity of 35,000 bushels per hour.
- (p) One (1) enclosed fill conveyor, identified as WF23, approved in 2012 for construction, each with a maximum capacity of 25,000 bushels of grain per hour.**
- ~~(pq)~~ One (1) enclosed fill conveyor, identified as B37, approved for modification in 2012, with a maximum capacity of 20,000 bushels per hour.
- ~~(qr)~~ Three (3) open fill conveyors serving three (3) storage piles, each with a maximum capacity of 25,000 bushels per hour.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

Grain Drying

- ~~(fs)~~ ---
- ~~(st)~~ ---
- ~~(tu)~~ ---
- ~~(tv)~~ ---
- ~~(vw)~~ ---
- ~~(wx)~~ ---

- (xy) ---
- (yz) ---
- (zaa) ---
- (aabb) ---
- (bbcc) ---
- (eedd) ---

---

#### SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

##### Emission Limitations and Standards [326 IAC 2-8-4(1)]

- (p) One (1) enclosed fill conveyor, identified as WF23, approved in 2012 for construction, each with a maximum capacity of 25,000 bushels of grain per hour.**
- (pq) One (1) enclosed fill conveyor, identified as B37, approved for modification in 2012, with a maximum capacity of 20,000 bushels per hour.
- (qr) Three (3) open fill conveyors serving three (3) storage piles, each with a maximum capacity of 25,000 bushels per hour.

##### Grain Drying

- (rs) ---
- (st) ---
- (tu) ---
- (uv) ---
- (vw) ---
- (wx) ---
- (xy) ---
- (yz) ---
- (zaa) ---
- (aabb) ---
- (bbcc) ---
- (eedd) ---

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D.1.2 Particulate [326 IAC 6-3]

Pursuant to 326 IAC 6-3-1(b), the requirements of 326 IAC 6-3-2 are applicable to each of the other operations not controlled by the above mentioned baghouses, since each of these operations has potential particulate emissions greater than five hundred fifty-one thousandths (0.551) pound per hour. Pursuant to 326 IAC 6-3-2, particulate emissions from each of the following operations shall not exceed the allowable emission rates listed in the following table:

Emissions Unit Description	Control Device(s)	Maximum Process Weight (tons/hr)	326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr)
Headhouse and Internal Handling			
---			
<b>One (1) fill conveyor WF23</b>	<b>Enclosed</b>	<b>725</b>	<b>73.50</b>
---			

---

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

**(p) One (1) enclosed fill conveyor, identified as WF23, approved in 2012 for construction, each with a maximum capacity of 25,000 bushels of grain per hour.**

**(pq)** One (1) enclosed fill conveyor, identified as B37, approved for modification in 2012, with a maximum capacity of 20,000 bushels per hour.

**(qr)** Three (3) open fill conveyors serving three (3) storage piles, each with a maximum capacity of 25,000 bushels per hour.

Grain Drying

**(rs)** ---

**(st)** ---

**(tu)** ---

**(uv)** ---

**(vw)** ---

**(wx)** ---

**(xy)** ---

**(yz)** ---

**(zaa)** ---

(aabb) ---

(bbcc) ---

(eadd) ---

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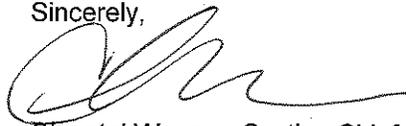
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All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Jack Harmon, of my staff, at 317-233-4228 or 1-800-451-6027, and ask for extension 3-4228.

Sincerely,



Chrystal Wagner, Section Chief  
Permits Branch  
Office of Air Quality

Attachments: Updated Permit

CW/jh

cc: File - Cass County  
Cass County Health Department  
U.S. EPA, Region V  
Compliance and Enforcement Branch  
Billing, Licensing and Training Section



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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## Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**ADM Grain Company - Logansport Terminal  
2626 S 275 W  
Logansport, Indiana 46947**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No. F017-30863-00017	
Original Signed by:  Nathan C. Bell, Section Chief Permits Branch Office of Air Quality	Issuance Date: July 31, 2012  Expiration Date: July 31, 2022
First Administrative Amendment No. 017-32464-00017	
Issued by:  Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 4, 2012  Expiration Date: July 31, 2022

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**Stratospheric Ozone Protection**

- C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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Attachment A - New Source Performance Standards For Grain Elevators [40 CFR 60, Subpart DD]

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary country grain elevator with a maximum throughput of 40,000,000 bushels of grain per year and total grain storage capacity of greater than 2.5 million bushels.

Source Address:	2626 S 275 W, Logansport, Indiana 46947
General Source Phone Number:	(217) 424-5817
SIC Code:	5153 (Grain and Field Beans)
County Location:	Ca ss
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

#### Grain Receiving

- (a) Three (3) receiving pits, consisting of the following:
- (1) Pit #2, with a maximum capacity of 25,000 bushels per hour, enclosed by a shed with particulate emissions controlled by one (1) baghouse, identified as F1, exhausting through one (1) stack (F1).
  - (2) Pits #3 and #4, each with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) baghouse, identified as F2, exhausting through one (1) stack (F2).
- (b) One (1) reclaim system, identified as Pit #1, with a maximum capacity of 25,000 bushels per hour, servicing Bin 10 and Bin 11 with particulate emissions controlled by one (1) baghouse, identified as F1, exhausting through stack F1.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

#### Headhouse and Internal Handling

- (c) One (1) enclosed receiving conveyor serving Pit #2, with a maximum capacity of 25,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F1, exhausting through one (1) stack (F1).

- (d) One (1) receiving leg serving Pit #2, with a maximum capacity of 25,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (e) One (1) receiving leg serving Pit #3, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (f) One (1) receiving leg serving Pit #4, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (g) Two (2) enclosed conveyors serving the concrete silos, each with a maximum capacity of 35,000 bushels per hour.
- (h) One (1) enclosed conveyor serving the concrete silos, with a maximum capacity of 20,000 bushels per hour.
- (i) Three (3) enclosed distributors serving the concrete silos, with a maximum capacities of 55,000, 35,000 and 20,000 bushels per hour.
- (j) One (1) enclosed reclaim conveyor serving the concrete silos, with a maximum capacity of 40,000 bushels per hour.
- (k) One (1) enclosed reclaim conveyor serving five (5) bins (20, 21, 22, D, and E), with a maximum capacity of 40,000 bushels per hour.
- (l) Three (3) enclosed fill conveyors serving the grain storage bins (Bin 10 and Bin 11), constructed in 2010, two (2) enclosed fill conveyors each with a maximum capacity of 30,000 bushels per hour and one (1) enclosed fill conveyor with a maximum capacity of 25,000 bushels per hour.
- (m) One (1) enclosed shipping conveyor, with a maximum capacity of 40,000 bushels per hour.
- (n) Three (3) enclosed fill conveyors, identified as EF20, EF21, and EF22, approved in 2012 for construction, each with a maximum capacity of 25,000 bushels per hour.
- (o) Three (3) enclosed fill conveyors, identified as WF20, WF21, and WF22, approved in 2012 for construction, each with a maximum capacity of 35,000 bushels per hour.
- (p) One (1) enclosed fill conveyor, identified as WF23, approved for construction in 2012, each with a maximum capacity of 25,000 bushels of grain per hour.
- (q) One (1) enclosed fill conveyor, identified as B37, approved for modification in 2012, with a maximum capacity of 20,000 bushels per hour.
- (r) Three (3) open fill conveyors serving three (3) storage piles, each with a maximum capacity of 25,000 bushels per hour.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

### Grain Drying

- (s) Two (2) natural gas-fired column grain dryers, identified as Dryer #1 and Dryer #2, each rated at 20.9 million British thermal units (MMBtu) per hour, with a maximum capacity of processing 7,000 and 4,000 bushels of grain per hour, respectively consisting of:
- (1) One (1) wet leg, with a maximum capacity of 15,000 bushels per hour.
  - (2) One (1) dry leg, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).

Under 40 CFR 60, Subpart DD, the wet and dry legs listed above are considered affected facilities.

### Grain Storage

- (t) Grain storage with a maximum permanent storage capacity of 11,884,437 bushels and a maximum temporary storage capacity of 1,000,000 bushels consisting of:
- (1) Thirty-seven (37) concrete storage silos, with a maximum total storage capacity of 1,199,192 bushels.
  - (2) Two (2) grain storage bins, identified as Bin 10 and Bin 11, constructed in 2010, with a total maximum storage capacity of 1,004,000 bushels and with a total maximum throughput of 1,160,000 tons per year.
  - (3) Three (3) steel bins, identified as Bin 20, Bin 21, and Bin 22, approved in 2012 for construction, with a total maximum storage capacity of 2,324,724 bushels.
  - (4) Two (2) storage bins, identified as Bin D and Bin E, constructed in 2010, with a total maximum storage capacity of 975,944 bushels.
  - (5) Three (3) storage piles, with three (3) open fill conveyors, with the storage piles having a total maximum storage capacity of 6,380,577 bushels.
  - (6) One (1) temporary storage pile with a lime base, filled by a portable auger, with a maximum storage capacity of 1,000,000 bushels.

### Grain Shipping

- (u) One (1) shipping leg, with a maximum capacity of 40,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (v) One (1) rail pit and drag claim reclaim system, rated at 5,000 bushels per hour.
- (w) One (1) rail loadout with telescoping spout, with a maximum capacity of 40,000 bushels per hour, enclosed by shed.
- (x) Two (2) side draw truck loadout spouts, each with a maximum capacity of 15,000 bushels per hour.
- (y) One (1) truck loadout, with a maximum capacity of 5,000 bushels per hour. The truck loadout is equipped with a spout and is located over Pit # 3 but is not controlled by Baghouse F2.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

#### Grain Cleaning

- (z) Two (2) stationary enclosed gravity cleaners, each with a maximum capacity of 22,000 bushels per hour.

Under 40 CFR 60, Subpart DD, the above listed emission unit is considered an affected facilities.

#### Baghouses

- (aa) One (1) baghouse, identified as F1, controlling particulate emission from receiving Pit #2, receiving conveyor serving Pit #2, and reclaim system Pit #1.
- (bb) One (1) baghouse, identified as F2, controlling particulate emissions from receiving Pit #3 and Pit #4.
- (cc) One (1) baghouse, identified as F3, controlling particulate emissions from one (1) receiving leg serving Pit #2, one (1) receiving leg serving Pit #3, one (1) receiving leg serving Pit #4, one (1) dry leg, and one (1) shipping leg.
- (dd) One (1) baghouse, identified as F5, which receives collected dust from baghouses F2 and F3, exhausting through one (1) stack (F5).

The source has a maximum throughput of 40,000,000 bushels per year, therefore, the maximum throughput to grain receiving, grain shipping, grain drying, and grain cleaning is 40,000,000 bushels of grain per year. The headhouse and internal handling operations have a maximum throughput of 2 times the maximum grain throughput because the grain is typically handled more than once.

#### A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

- (a) Unpaved roads and parking lots with public access.
- (b) One (1) diesel storage tank with a maximum capacity of 500 gallons.

#### A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

## SECTION B GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-8-1]

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

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- (a) This permit, F017-30863-00017, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-8-6] [IC 13-17-12]

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Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Severability [326 IAC 2-8-4(4)]

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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This permit does not convey any property rights of any sort or any exclusive privilege.

### B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

### B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

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- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

- (1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
- (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

**B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.12 Emergency Provisions [326 IAC 2-8-12]**

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
- (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F017-30863-00017 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
- (2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

**B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination  
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.16 Permit Renewal [326 IAC 2-8-3(h)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003

Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
  - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) **Emission Trades [326 IAC 2-8-15(c)]**  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(d)]**  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) **Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.**

**B.19 Source Modification Requirement [326 IAC 2-8-11.1]**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

**B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM) and greenhouse gases (GHGs), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (4) The potential to emit greenhouse gases (GHGs) from the entire source shall be limited to less than one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

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The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

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The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Stack Height [326 IAC 1-7]

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The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

### **Testing Requirements [326 IAC 2-8-4(3)]**

#### **C.9 Performance Testing [326 IAC 3-6]**

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- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### **Compliance Requirements [326 IAC 2-1.1-11]**

#### **C.10 Compliance Requirements [326 IAC 2-1.1-11]**

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

### **Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]**

#### **C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]**

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Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

#### **C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

### **Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]**

#### **C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

#### **C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]**

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

#### **C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]**

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Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

**C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

**C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

**C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003

Indianapolis, Indiana 46204-2251

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

### **Stratospheric Ozone Protection**

#### **C.19 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

## SECTION D.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Grain Receiving

- (a) Three (3) receiving pits, consisting of the following:
- (1) Pit #2, with a maximum capacity of 25,000 bushels per hour, enclosed by a shed with particulate emissions controlled by one (1) baghouse, identified as F1, exhausting through one (1) stack (F1).
  - (2) Pits #3 and #4, each with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) baghouse, identified as F2, exhausting through one (1) stack (F2).
- (b) One (1) reclaim system, identified as Pit #1, with a maximum capacity of 25,000 bushels per hour, servicing Bin 10 and Bin 11 with particulate emissions controlled by one (1) baghouse, identified as F1, exhausting through stack F1.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

#### Headhouse and Internal Handling

- (c) One (1) enclosed receiving conveyor serving Pit #2, with a maximum capacity of 25,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F1, exhausting through one (1) stack (F1).
- (d) One (1) receiving leg serving Pit #2, with a maximum capacity of 25,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (e) One (1) receiving leg serving Pit #3, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (f) One (1) receiving leg serving Pit #4, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (g) Two (2) enclosed conveyors serving the concrete silos, each with a maximum capacity of 35,000 bushels per hour.
- (h) One (1) enclosed conveyor serving the concrete silos, with a maximum capacity of 20,000 bushels per hour.
- (i) Three (3) enclosed distributors serving the concrete silos, with a maximum capacities of 55,000, 35,000 and 20,000 bushels per hour.
- (j) One (1) enclosed reclaim conveyor serving the concrete silos, with a maximum capacity of 40,000 bushels per hour.
- (k) One (1) enclosed reclaim conveyor serving five (5) bins (20, 21, 22, D, and E), with a maximum capacity of 40,000 bushels per hour.
- (l) Three (3) enclosed fill conveyors serving the grain storage bins (Bin 10 and Bin 11), constructed in 2010, two (2) enclosed fill conveyors each with a maximum capacity of 30,000 bushels per hour and one (1) enclosed fill conveyor with a maximum capacity of 25,000 bushels per hour.

- (m) One (1) enclosed shipping conveyor, with a maximum capacity of 40,000 bushels per hour.
- (n) Three (3) enclosed fill conveyors, identified as EF20, EF21, and EF22, approved in 2012 for construction, each with a maximum capacity of 25,000 bushels per hour.
- (o) Three (3) enclosed fill conveyors, identified as WF20, WF21, and WF22, approved in 2012 for construction, each with a maximum capacity of 35,000 bushels per hour.
- (p) One (1) enclosed fill conveyor, identified as WF23, approved for modification in 2012, with a maximum capacity of 25,000 bushels per hour.
- (q) One (1) enclosed fill conveyor, identified as B37, approved for modification in 2012, with a maximum capacity of 20,000 bushels per hour.
- (r) Three (3) open fill conveyors serving three (3) storage piles, each with a maximum capacity of 25,000 bushels per hour.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

#### Grain Drying

- (s) Two (2) natural gas-fired column grain dryers, identified as Dryer #1 and Dryer #2, each rated at 20.9 million British thermal units (MMBtu) per hour, with a maximum capacity of processing 7,000 and 4,000 bushels of grain per hour, respectively consisting of:
  - (1) One (1) wet leg, with a maximum capacity of 15,000 bushels per hour.
  - (2) One (1) dry leg, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).

Under 40 CFR 60, Subpart DD, the wet and dry legs listed above are considered affected facilities.

#### Grain Storage

- (t) Grain storage with a maximum permanent storage capacity of 11,884,437 bushels and a maximum temporary storage capacity of 1,000,000 bushels consisting of:
  - (1) Thirty-seven (37) concrete storage silos, with a maximum total storage capacity of 1,199,192 bushels.
  - (2) Two (2) grain storage bins, identified as Bin 10 and Bin 11, constructed in 2010, with a total maximum storage capacity of 1,004,000 bushels and with a total maximum throughput of 1,160,000 tons per year.
  - (3) Three (3) steel bins, identified as Bin 20, Bin 21, and Bin 22, approved in 2012 for construction, with a total maximum storage capacity of 2,324,724 bushels.
  - (4) Two (2) storage bins, identified as Bin D and Bin E, constructed in 2010, with a total maximum storage capacity of 975,944 bushels.
  - (5) Three (3) storage piles, with three (3) open fill conveyors, with the storage piles having a total maximum storage capacity of 6,380,577 bushels.
  - (6) One (1) temporary storage pile with a lime base, filled by a portable auger, with a maximum storage capacity of 1,000,000 bushels.

### Grain Shipping

- (u) One (1) shipping leg, with a maximum capacity of 40,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (v) One (1) rail pit and drag claim reclaim system, rated at 5,000 bushels per hour.
- (w) One (1) rail loadout with telescoping spout, with a maximum capacity of 40,000 bushels per hour, enclosed by shed.
- (x) Two (2) side draw truck loadout spouts, each with a maximum capacity of 15,000 bushels per hour.
- (y) One (1) truck loadout, with a maximum capacity of 5,000 bushels per hour. The truck loadout is equipped with a spout and is located over Pit # 3 but is not controlled by Baghouse F2.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

### Grain Cleaning

- (z) Two (2) stationary enclosed gravity cleaners, each with a maximum capacity of 22,000 bushels per hour.

Under 40 CFR 60, Subpart DD, the above listed emission unit is considered an affected facilities.

### Baghouses

- (aa) One (1) baghouse, identified as F1, controlling particulate emission from receiving Pit #2, receiving conveyor serving Pit #2, and reclaim system Pit #1.
- (bb) One (1) baghouse, identified as F2, controlling particulate emissions from receiving Pit #3 and Pit #4.
- (cc) One (1) baghouse, identified as F3, controlling particulate emissions from one (1) receiving leg serving Pit #2, one (1) receiving leg serving Pit #3, one (1) receiving leg serving Pit #4, one (1) dry leg, and one (1) shipping leg.
- (dd) One (1) baghouse, identified as F5, which receives collected dust from baghouses F2 and F3, exhausting through one (1) stack (F5).

The source has a maximum throughput of 40,000,000 bushels per year, therefore, the maximum throughput to grain receiving, grain shipping, grain drying, and grain cleaning is 40,000,000 bushels of grain per year. The headhouse and internal handling operations have a maximum throughput of 2 times the maximum grain throughput because the grain is typically handled more than once.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

## **Emission Limitations and Standards [326 IAC 2-8-4(1)]**

### D.1.1 FESOP and PSD Minor Limits [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, and in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable, the Permittee shall comply with the following:

- (a) PM emissions after control shall be less than the following emission limitations:

Unit Description	PM Emission Limit (lbs/hr)
Grain Receiving Pit #2, receiving conveyor and reclaim system (Pit #1) (Baghouse F1)	2.14
Grain Receiving Pits #3, #4 and Receiving Conveyor (Baghouse F2)	1.89
Headhouse, Internal Handling, Shipping and Receiving Legs, Reclaim, Transfer and Shipping Conveyors (Baghouse F3)	2.31
Baghouse F5 (controlling Baghouses F2 and F3)	0.06

(b) PM10 emissions after control shall be less than the following emission limitations:

Unit Description	PM10 Emission Limit (lbs/hr)
Grain Receiving Pit #2, receiving conveyor and reclaim system (Pit #1) (Baghouse F1)	2.14
Grain Receiving Pits #3, #4 and Receiving Conveyor (Baghouse F2)	1.89
Headhouse, Internal Handling, Shipping and Receiving Legs, Reclaim, Transfer and Shipping Conveyors (Baghouse F3)	2.31
Baghouse F5 (controlling Baghouses F2 and F3)	0.06

(c) The total amount of grain processed through the grain dryers shall not exceed 600,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with the above limits, combined with the potential to emit PM and PM10 from all other emission units at this source, shall limit the source-wide PM emissions to less than 250 tons per year and PM10 emissions to less than 100 tons per year and shall render the requirements of 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

In order to comply with the limits in the table above and 40 CFR 60, Subpart DD, the particulate control devices associated with the grain receiving, headhouse and internal handling, and grain shipping operations shall be operated at all times that these operations are in operation.

D.1.2 Particulate [326 IAC 6-3]

Pursuant to 326 IAC 6-3-1(b), the requirements of 326 IAC 6-3-2 are applicable to each of the other operations not controlled by the above mentioned baghouses, since each of these operations has potential particulate emissions greater than five hundred fifty-one thousandths (0.551) pound per hour. Pursuant to 326 IAC 6-3-2, particulate emissions from each of the following operations shall not exceed the allowable emission rates listed in the following table:

Emissions Unit Description	Control Device(s)	Maximum Process Weight (tons/hr)	326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr)
<b>Headhouse and Internal Handling</b>			
Two (2) conveyors serving concrete silos	Enclosed	1015.0 each	77.78 each

Emissions Unit Description	Control Device(s)	Maximum Process Weight (tons/hr)	326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr)
One (1) conveyor serving concrete silos	Enclosed	580	70.75
One (1) distributor serving concrete silos	Enclosed	1,595	83.78
One (1) distributor serving concrete silos	Enclosed	1,015	77.78
One (1) distributor serving concrete silos	Enclosed	580	70.75
One (1) reclaim conveyor serving concrete silos	Enclosed	1,160	79.52
One (1) reclaim conveyor (bins 20, 21, 22, D and E)	Enclosed	1,160	79.52
Two (2) fill conveyors (bins 10 and 11)	Enclosed	870 each	75.80 each
One (1) fill conveyor (bins 10 and 11)	Enclosed	725	73.50
One (1) shipping conveyor	Enclosed	1,160	79.52
Three (3) fill conveyors (EF20, EF21, and EF22)	Enclosed	725 each	73.50 each
Three (3) fill conveyors (WF20, WF21 and WF22)	Enclosed	1,015 each	77.78 each
One (1) fill conveyor (WF23)	Enclosed	725	73.50
One (1) fill conveyor (B37)	Enclosed	580	70.75
Three (3) open fill conveyors serving three (3) storage piles	--	725 each	73.50 each
Two (2) stationary cleaners	--	638 each	71.92 each
<b>Grain Drying</b>			
Dryer #1	--	203	58.67
Dryer #2	--	116	52.78
One (1) Wet Leg	--	435	67.30
<b>Grain Shipping</b>			
One (1) rail pit and drag claim reclaim system	--	145	55.09
One (1) truck loadout	Loadout Spout	145	55.09
One (1) rail loadout	Enclosed and Loadout Spouts	1,160	79.52
Two (2) side draw truck loadout spouts	Loadout Spouts	435 each	67.30 each

These pounds per hour limitations were calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

When the process weight rate exceeds two hundred (200) tons per hour, the maximum allowable emission may exceed the emission rate derived by the equation above, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

#### D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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A Preventive Maintenance Plan is required for the grain receiving, headhouse and internal handling, grain cleaning, and grain shipping operations and their respective control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

### Compliance Determination Requirements

#### D.1.4 Particulate Control

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- (a) In order to comply with Conditions D.1.1 and D.1.2, and 40 CFR 60, Subpart DD, the particulate control devices associated with the grain receiving, headhouse and internal handling, and grain shipping operations shall be operated at all times that these operations are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notifications shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

#### D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

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In order to comply with Conditions D.1.1 and D.1.2, and 40 CFR 60, Subpart DD, the Permittee shall perform PM and PM10 testing for the baghouses (F1, F2, F3, and F5) controlling the grain receiving, headhouse and internal handling, and grain shipping operations, utilizing the methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM10.

### Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

#### D.1.6 Visible Emissions Notations

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- (a) Visible emissions notations of the baghouse stack exhausts associated with the grain receiving, headhouse and internal handling, grain cleaning, and grain shipping operations shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eight percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

#### D.1.7 Parametric Monitoring

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The Permittee shall record the pressure drop across the baghouses associated with the grain receiving, headhouse and internal handling, and grain shipping operations, at least once per day when these operations are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range the Permittee shall take a reasonable response. The normal range for these units is a pressure drop between 1.0 and 8.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

#### D.1.8 Broken or Failed Bag Detection

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouses pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

### **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

#### D.1.9 Record Keeping Requirement

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- (a) To document the compliance status with Conditions D.1.1(c), the Permittee shall maintain records of the amount of grain dried each month and each compliance period.
- (b) To document the compliance status with Condition D.1.6, the Permittee shall maintain a daily record of visible emission notations for each of the stack exhausts for Baghouses F1 through F3 and Baghouse F5. The Permittee shall include in each daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).
- (c) To document the compliance status with Condition D.1.7, the Permittee shall maintain a daily record of pressure drop reading across each of the Baghouses F1 through F3 and F5. The Permittee shall include in each daily record when a pressure drop reading is not

taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).

- (d) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

#### D.1.10 Reporting Requirement

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A quarterly summary of the information to document the compliance status with Conditions D.1.1(c) shall be submitted using the reporting forms located at the end of this permit, or their equivalent, no later than thirty (30) days after the end of the quarter month period being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification the meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## SECTION E.1

## EMISSIONS UNIT OPERATION CONDITIONS

### **Emissions Unit Description:**

#### Grain Receiving

- (a) Three (3) receiving pits, consisting of the following:
- (1) Pit #2, with a maximum capacity of 25,000 bushels per hour, enclosed by a shed with particulate emissions controlled by one (1) baghouse, identified as F1, exhausting through one (1) stack (F1).
  - (2) Pits #3 and #4, each with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) baghouse, identified as F2, exhausting through one (1) stack (F2).
- (b) One (1) reclaim system, identified as Pit #1, with a maximum capacity of 25,000 bushels per hour, servicing Bin 10 and Bin 11 with particulate emissions controlled by one (1) baghouse, identified as F1, exhausting through stack F1.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

#### Headhouse and Internal Handling

- (c) One (1) enclosed receiving conveyor serving Pit #2, with a maximum capacity of 25,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F1, exhausting through one (1) stack (F1).
- (d) One (1) receiving leg serving Pit #2, with a maximum capacity of 25,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (e) One (1) receiving leg serving Pit #3, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (f) One (1) receiving leg serving Pit #4, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (g) Two (2) enclosed conveyors serving the concrete silos, each with a maximum capacity of 35,000 bushels per hour.
- (h) One (1) enclosed conveyor serving the concrete silos, with a maximum capacity of 20,000 bushels per hour.
- (i) Three (3) enclosed distributors serving the concrete silos, with a maximum capacities of 55,000, 35,000 and 20,000 bushels per hour.
- (j) One (1) enclosed reclaim conveyor serving the concrete silos, with a maximum capacity of 40,000 bushels per hour.
- (k) One (1) enclosed reclaim conveyor serving five (5) bins (20, 21, 22, D, and E), with a maximum capacity of 40,000 bushels per hour.

- (l) Three (3) enclosed fill conveyors serving the grain storage bins (Bin 10 and Bin 11), constructed in 2010, two (2) enclosed fill conveyors each with a maximum capacity of 30,000 bushels per hour and one (1) enclosed fill conveyor with a maximum capacity of 25,000 bushels per hour.
  - (m) One (1) enclosed shipping conveyor, with a maximum capacity of 40,000 bushels per hour.
  - (n) Three (3) enclosed fill conveyors, identified as EF20, EF21, and EF22, approved in 2012 for construction, each with a maximum capacity of 25,000 bushels per hour.
  - (o) Three (3) enclosed fill conveyors, identified as WF20, WF21, and WF22, approved in 2012 for construction, each with a maximum capacity of 35,000 bushels per hour.
- 
- (p) One (1) enclosed fill conveyor, identified as WF23, approved for modification in 2012, with a maximum capacity of 25,000 bushels per hour.
  - (q) One (1) enclosed fill conveyor, identified as B37, approved for modification in 2012, with a maximum capacity of 20,000 bushels per hour.
  - (r) Three (3) open fill conveyors serving three (3) storage piles, each with a maximum capacity of 25,000 bushels per hour.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

#### Grain Drying

- (s) Two (2) natural gas-fired column grain dryers, identified as Dryer #1 and Dryer #2, each rated at 20.9 million British thermal units (MMBtu) per hour, with a maximum capacity of processing 7,000 and 4,000 bushels of grain per hour, respectively consisting of:
  - (1) One (1) wet leg, with a maximum capacity of 15,000 bushels per hour.
  - (2) One (1) dry leg, with a maximum capacity of 18,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).

Under 40 CFR 60, Subpart DD, the wet and dry legs listed above are considered affected facilities.

#### Grain Storage

- (t) Grain storage with a maximum permanent storage capacity of 11,884,437 bushels and a maximum temporary storage capacity of 1,000,000 bushels consisting of:
  - (1) Thirty-seven (37) concrete storage silos, with a maximum total storage capacity of 1,199,192 bushels.
  - (2) Two (2) grain storage bins, identified as Bin 10 and Bin 11, constructed in 2010, with a total maximum storage capacity of 1,004,000 bushels and with a total maximum throughput of 1,160,000 tons per year.
  - (3) Three (3) steel bins, identified as Bin 20, Bin 21, and Bin 22, approved in 2012 for construction, with a total maximum storage capacity of 2,324,724 bushels.
  - (4) Two (2) storage bins, identified as Bin D and Bin E, constructed in 2010, with a total maximum storage capacity of 975,944 bushels.

(5) Three (3) storage piles, with three (3) open fill conveyors, with the storage piles having a total maximum storage capacity of 6,380,577 bushels.

(6) One (1) temporary storage pile with a lime base, filled by a portable auger, with a maximum storage capacity of 1,000,000 bushels.

#### Grain Shipping

- (u) One (1) shipping leg, with a maximum capacity of 40,000 bushels per hour, with particulate emissions controlled by one (1) existing baghouse, identified as F3, exhausting through one (1) stack (F3).
- (v) One (1) rail pit and drag claim reclaim system, rated at 5,000 bushels per hour.
- (w) One (1) rail loadout with telescoping spout, with a maximum capacity of 40,000 bushels per hour, enclosed by shed.
- (x) Two (2) side draw truck loadout spouts, each with a maximum capacity of 15,000 bushels per hour.
- (y) One (1) truck loadout, with a maximum capacity of 5,000 bushels per hour. The truck loadout is equipped with a spout and is located over Pit # 3 but is not controlled by Baghouse F2.

Under 40 CFR 60, Subpart DD, the above listed emission units are considered affected facilities.

#### Grain Cleaning

- (z) Two (2) stationary enclosed gravity cleaners, each with a maximum capacity of 22,000 bushels per hour.

Under 40 CFR 60, Subpart DD, the above listed emission unit is considered an affected facilities.

#### Baghouses

- (aa) One (1) baghouse, identified as F1, controlling particulate emission from receiving Pit #2, receiving conveyor serving Pit #2, and reclaim system Pit #1.
- (bb) One (1) baghouse, identified as F2, controlling particulate emissions from receiving Pit #3 and Pit #4.
- (cc) One (1) baghouse, identified as F3, controlling particulate emissions from one (1) receiving leg serving Pit #2, one (1) receiving leg serving Pit #3, one (1) receiving leg serving Pit #4, one (1) dry leg, and one (1) shipping leg.
- (dd) One (1) baghouse, identified as F5, which receives collected dust from baghouses F2 and F3, exhausting through one (1) stack (F5).

The source has a maximum throughput of 40,000,000 bushels per year, therefore, the maximum throughput to grain receiving, grain shipping, grain drying, and grain cleaning is 40,000,000 bushels of grain per year. The headhouse and internal handling operations have a maximum throughput of 2 times the maximum grain throughput because the grain is typically handled more than once.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### **National Source Performance Standards (NSPS) Requirements**

**E.1.1 General Provisions Relating to NSPS [40 CFR 60, Subpart A] [326 IAC 12-1]**

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The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the grain receiving, headhouse and internal handling , grain shipping, and grain cleaning operations, and the associated baghouses controlling these operations unit except when otherwise specified in 40 CFR 60, Subpart DD.

**E.1.2 New Source Performance Standards (NSPS) for Grain Elevators [40 CFR 60, Subpart DD] [326 IAC 12]**

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The Permittee, which operates a stationary grain terminal elevator which commenced construction after August 3, 1978, shall comply with the following provisions of 40 CFR Part 60, Subpart DD (included as Attachment A of this permit), which are incorporated by reference as 326 IAC 12:

- (a) 40 CFR 60.300
- (b) 40 CFR 60.301
- (c) 40 CFR 60.302(b) and (c)
- (d) 40 CFR 60.303

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: ADM Grain Company - Logansport Terminal  
Source Address: 2626 S 275 W, Logansport, Indiana 46947  
FESOP Permit No.: F017-30863-00017

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)\_\_\_\_\_
- Report (specify)\_\_\_\_\_
- Notification (specify)\_\_\_\_\_
- Affidavit (specify)\_\_\_\_\_
- Other (specify)\_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: (317) 233-0178  
Fax: (317) 233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: ADM Grain Company - Logansport Terminal  
Source Address: 2626 S 275 W, Logansport, Indiana 46947  
FESOP Permit No.: F017-30863-00017

**This form consists of 2 pages**

**Page 1 of 2**

- |  |
|--|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and</li><li>• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16</li></ul> |
|--|

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FESOP Quarterly Report**

Source Name: ADM Grain Company - Logansport Terminal  
Source Address: 2626 S 275 W, Logansport, Indiana 46947  
FESOP Permit No.: F017-30863-00017  
Facility: Grain Dryers (Dryer #1 and Dryer #2)  
Parameter: Total Grain Processed  
Limit: The total amount of grain processed through the grain dryers shall not exceed 600,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: \_\_\_\_\_ YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: ADM Grain Company - Logansport Terminal  
Source Address: 2626 S 275 W, Logansport, Indiana 46947  
FESOP Permit No.: F017-30863-00017

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p><b>Permit Requirement</b> (specify permit condition #)</p>	
<p><b>Date of Deviation:</b></p>	<p><b>Duration of Deviation:</b></p>
<p><b>Number of Deviations:</b></p>	
<p><b>Probable Cause of Deviation:</b></p>	
<p><b>Response Steps Taken:</b></p>	
<p><b>Permit Requirement</b> (specify permit condition #)</p>	
<p><b>Date of Deviation:</b></p>	<p><b>Duration of Deviation:</b></p>
<p><b>Number of Deviations:</b></p>	
<p><b>Probable Cause of Deviation:</b></p>	
<p><b>Response Steps Taken:</b></p>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Emission Summary

Company Name: ADM Grain Company - Logansport Terminal  
 Source Address: 2626 S 275 W, Logansport, Indiana 46947  
 Permit No.: 017-32464-00017  
 Reviewer: Jack Harmon  
 Date: November, 2012

		Uncontrolled/Unlimited Emissions (tons/year)										
Process/Emission Unit	Control Device(s)	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	GHGs as CO2e (tons/yr)	Total HAPs (tons/yr)	Worst Case Single HAP (tons/yr)	
Grain Receiving	Enclosures and Baghouses F1, F2, and F5	104.40	34.22	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Headhouse and Internal Handling	Enclosures and Baghouses F1, F3, and F5	70.76	39.44	6.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Rail or Truck Shipping	Spouts, Enclosures, and Baghouses F3 and F5	49.88	16.82	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Grain Cleaning	Enclosed	35.38	19.72	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Grain Drying	---	127.60	31.90	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Grain Storage Bins	---	14.50	3.65	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Storage Piles	---	10.27	4.47	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Natural Gas Combustion	---	0.35	1.39	1.39	0.11	18.31	1.01	15.38	22,104	0.35	0.33	Hexane
Unpaved Roadways	---	10.45	2.66	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
<b>Total</b>		<b>423.59</b>	<b>154.28</b>	<b>29.64</b>	<b>0.11</b>	<b>18.31</b>	<b>1.01</b>	<b>15.38</b>	<b>22,104</b>	<b>0.35</b>	<b>0.33</b>	<b>Hexane</b>

		Limited Emissions (tons/year)											
Process/Emission Unit	Control Device(s)	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	GHGs as CO2e (tons/yr)	Total HAPs (tons/yr)	Worst Case Single HAP (tons/yr)		
Grain Receiving	Enclosures and Baghouses F1, F2, and F5	28.04	28.04	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --	
Headhouse and Internal Handling	Enclosures and Baghouses F1, F3, and F5			6.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Rail or Truck Shipping	Spouts, Enclosures, and Baghouses F3 and F5			2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Grain Cleaning	Enclosed	35.38	19.72	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --	
Grain Drying	---	66.00	16.50	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --	
Grain Storage Bins	---	14.50	3.65	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --	
Storage Piles	---	10.27	4.47	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --	
Natural Gas Combustion	---	0.35	1.39	1.39	0.11	18.31	1.01	15.38	22,104	0.35	0.33	Hexane	
Unpaved Roadways	---	10.45	2.66	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --	
<b>Total</b>		<b>165.00</b>	<b>76.45</b>	<b>27.01</b>	<b>0.11</b>	<b>18.31</b>	<b>1.01</b>	<b>15.38</b>	<b>22,104</b>	<b>0.35</b>	<b>0.33</b>	<b>Hexane</b>	

		Limited/Controlled Emissions (tons/year)										
Process/Emission Unit	Control Device(s)	PM (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	GHGs as CO2e (tons/yr)	Total HAPs (tons/yr)	Worst Case Single HAP (tons/yr)	
Grain Receiving	Enclosures and Baghouses F1, F2, and F5	1.04	0.34	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Headhouse and Internal Handling	Enclosures and Baghouses F1, F3, and F5	0.71	0.39	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Rail or Truck Shipping	Spouts, Enclosures, and Baghouses F3 and F5	0.50	0.17	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Grain Cleaning	Enclosed	35.38	19.72	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Grain Drying	---	66.00	16.50	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Grain Storage Bins	---	14.50	3.65	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Storage Piles	---	10.27	4.47	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
Natural Gas Combustion	---	0.35	1.39	1.39	0.11	18.31	1.01	15.38	22,104	0.35	0.33	Hexane
Unpaved Roadways	---	10.45	2.66	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 --
<b>Total</b>		<b>139.20</b>	<b>49.31</b>	<b>11.79</b>	<b>0.11</b>	<b>18.31</b>	<b>1.01</b>	<b>15.38</b>	<b>22,104</b>	<b>0.35</b>	<b>0.33</b>	<b>Hexane</b>

**Appendix A: Emissions Calculations  
Grain Elevator  
Potential to Emit for Enclosed Fill Conveyor WF23**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

Maximum Grain Throughput = 40,000,000 (bushels/year)\*  
 Bulk Density of Grain = 58 lbs/bushel  
 Maximum Grain Throughput = 1,160,000 (tons/year)

Total number of internal handling steps = 2  
 Maximum Internal Handling Throughput = 2,320,000 tons/year

**Unlimited Potential to Emit**

Process	Pollutant	Uncontrolled Emission Factor (lb/ton)	Maximum Throughput (tons/yr)	Uncontrolled Potential Emissions (tons/yr)	Control Devices	Control Efficiency %	Unlimited/Controlled Emissions (tons/yr)
Headhouse and Internal Handling**	PM	0.061	2,320,000	70.76	Enclosures and Baghouses F1, F3, and F5	99.00%	0.71
	PM-10	0.034	2,320,000	39.44		99.00%	0.39
	PM2.5	0.0058	2,320,000	6.73		99.00%	0.07

Enclosed Fill Conveyor WF23 has capacity of 25,000 bushels per hour.

**Methodology**

\*The maximum grain throughput of 40,000,000 bushels/year was calculated using the Guidance Memo from US EPA's Office of Air Quality Planning and Standards, dated November 14, 1995 for calculating PTE for county grain elevators.

It is the maximum grain throughput of the source during the previous 5 years multiplied by a adjustment factor of 1.2.

\*\*Throughput for Internal Handling is based on a conservative estimate of 2 times the grain throughput since the grain is typically handled more than once.

\*\*\*Annual throughput is limited to less than 600,000 tons per year.

Emission Factors are from US EPA's AP-42, Section 9.9.1 for Grain Elevators, Table 9.9.1-1, April 2003.

Maximum Grain Throughput (tons/year) = [Maximum Grain Throughput (bushels/year)] \* [58 lbs/bushel] \* [ton/2000 lbs]

Potential Emissions (tons/yr) = [Emission Factor (lb/ton)] \* [Maximum Throughput (tons/yr)] \* [ton/2000 lbs]

Limited Emissions (tons/yr) = [Emission Factor (lb/ton)] \* [Limited Throughput (tons/yr)] \* [ton/2000 lbs]

Controlled Emissions (tons/yr) = [Uncontrolled Emissions (tons/yr)] \* [1 - Control Efficiency]

**Appendix A: Emissions Calculations  
Grain Elevator  
Grain Receiving and Shipping**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

Maximum Grain Throughput = 40,000,000 (bushels/year)\*  
 Bulk Density of Grain = 58 lbs/bushel  
 Maximum Grain Throughput = 1,160,000 (tons/year)

Unit Description	Maximum Throughput Rate (tons/yr)	Pollutant	Uncontrolled Emission Factors (lb/ton)**	Uncontrolled Emissions (tons/yr)	Control Device(s)	Control Efficiency %	Controlled Emissions (tons/yr)
Grain Receiving**	1,160,000	PM	0.18	104.40	Enclosures and Baghouses F1, F2, and F5	99.00%	1.04
		PM10	0.059	34.22			0.34
		PM2.5	0.010	5.80			0.06

Unit Description	Maximum Throughput Rate (tons/yr)	Pollutant	Uncontrolled Emission Factors (lb/ton)	Uncontrolled Emissions (tons/yr)	Control Device(s)	Control Efficiency %	Controlled Emissions (tons/yr)
Grain Shipping	1,160,000	PM	0.086	49.88	Spouts, Enclosures, and Baghouses F3 and F5	99.00%	0.50
		PM10	0.029	16.82			0.17
		PM2.5	0.0049	2.84			0.03

**Methodology**

\*The maximum grain throughput of 40,000,000 bushels/year was calculated using the Guidance Memo from US EPA's Office of Air Quality Planning and Standards, dated November 14, 1995 for calculating PTE for county grain elevators. It is the maximum grain throughput of the source during the previous 5 years multiplied by a adjustment factor of 1.2.  
 \*\*For the potential to emit, IDEM has assumed the worst case scenario, where all grain is received by straight trucks. Emission Factors are from US EPA's AP-42, Section 9.9.1 for Grain Elevators, Table 9.9.1-1, April 2003.  
 Maximum Grain Throughput (tons/year) = [Maximum Grain Throughput (bushels/year)] \* [58 lbs/bushel] \* [ton/2000 lbs]  
 Uncontrolled Emissions (tons/yr) = [Emission Factor (lb/ton)] \* [Maximum Throughput (tons/yr)] \* [ton/2000 lbs]  
 Controlled Emissions (tons/yr) = [Uncontrolled Emissions (tons/yr)] \* [1 - Control Efficiency]

**Appendix A: Emissions Calculations**  
**Grain Elevator**  
**Headhouse and Internal Handling, Grain Drying and Grain Cleaning**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

Maximum Grain Throughput = 40,000,000 (bushels/year)\*  
 Bulk Density of Grain = 58 lbs/bushel  
 Maximum Grain Throughput = 1,160,000 (tons/year)

Total number of internal handling steps = 2  
 Maximum Internal Handling Throughput = 2,320,000 tons/year

**Unlimited Potential to Emit**

Process	Pollutant	Uncontrolled Emission Factor (lb/ton)	Maximum Throughput (tons/yr)	Uncontrolled Potential Emissions (tons/yr)	Control Devices	Control Efficiency %	Unlimited/Controlled Emissions (tons/yr)
Headhouse and Internal Handling**	PM	0.061	2,320,000	70.76	Enclosures and Baghouses F1, F3, and F5	99.00%	0.71
	PM-10	0.034	2,320,000	39.44		99.00%	0.39
	PM2.5	0.0058	2,320,000	6.73		99.00%	0.07
Grain Drying	PM	0.22	1,160,000	127.60	---	0.00%	127.60
	PM-10	0.055	1,160,000	31.90		0.00%	31.90
	PM2.5	0.0094	1,160,000	5.45		0.00%	5.45
Grain Cleaning	PM	0.061	1,160,000	35.38	--	0.00%	35.38
	PM-10	0.034	1,160,000	19.72		0.00%	19.72
	PM2.5	0.0058	1,160,000	3.36		0.00%	3.36

**Limited Potential to Emit**

Process	Pollutant	Emission Factor (lb/ton)	Limited Throughput (tons/yr)	Uncontrolled Limited Emissions (tons/yr)	Control Devices	Control Efficiency %	Limited/Controlled Emissions (tons/yr)
Grain Drying***	PM	0.22	600,000	66.00	---	0.00%	66.00
	PM-10	0.055	600,000	16.50		0.00%	16.50
	PM2.5	0.0094	600,000	2.82		0.00%	2.82

**Methodology**

\*The maximum grain throughput of 40,000,000 bushels/year was calculated using the Guidance Memo from US EPA's Office of Air Quality Planning and Standards, dated November 14, 1995 for calculating PTE for county grain elevators. It is the maximum grain throughput of the source during the previous 5 years multiplied by an adjustment factor of 1.2.

\*\*Throughput for Internal Handling is based on a conservative estimate of 2 times the grain throughput since the grain is typically handled more than once.  
 \*\*\*Annual throughput is limited to less than 600,000 tons per year.

Emission Factors are from US EPA's AP-42, Section 9.9.1 for Grain Elevators, Table 9.9.1-1, April 2003.  
 Maximum Grain Throughput (tons/year) = [Maximum Grain Throughput (bushels/year)] \* [58 lbs/bushel] \* [ton/2000 lbs]  
 Potential Emissions (tons/yr) = [Emission Factor (lb/ton)] \* [Maximum Throughput (tons/yr)] \* [ton/2000 lbs]  
 Limited Emissions (tons/yr) = [Emission Factor (lb/ton)] \* [Limited Throughput (tons/yr)] \* [ton/2000 lbs]  
 Controlled Emissions (tons/yr) = [Uncontrolled Emissions (tons/yr)] \* [1 - Control Efficiency]

**Appendix A: Emissions Calculations**  
**40 CFR Part 60, Subpart DD (Standards of Performance for Grain Elevators) Compliance Calculations**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

**40 CFR Part 60, Subpart DD (Standards of Performance for Grain Elevators) Compliance Calculations:**

The following calculations determine compliance with NSPS Subpart DD, which limits stack emissions from affected facilities at a grain elevator to 0.01 gr/dscf.

**Baghouse F1 Controlling Receiving Pit#2, Receiving Conveyor and Reclaim System (Pit #1)**

Emissions include receiving emissions only.

**Process: Grain Receiving**

$$\frac{1.04 \text{ tons/yr (after control) } *}{525600 \text{ min/yr } *} \frac{2000 \text{ lb/ton } *}{25000 \text{ dscf/min}} \frac{7000 \text{ gr/lb}}{=} = \frac{0.0011 \text{ gr}}{\text{dscf}} \text{ (able to comply with NSPS)}$$

Based on NSPS Subpart DD limit of 0.01 gr/dscf, the allowable particulate emissions equate to 9.39 tons/yr = 2.14 lbs/hr

Note: SCFM =  $\frac{25000 \text{ acfm} * (460 + 68)}{25000 \text{ scfm}}$

**Baghouse F2 Controlling Receiving Pits #3 and #4 and shipping leg**

Emissions include receiving emissions only.

**Process: Grain Receiving**

$$\frac{1.54 \text{ tons/yr (after control) } *}{525600 \text{ min/yr } *} \frac{2000 \text{ lb/ton } *}{22000 \text{ dscf/min}} \frac{7000 \text{ gr/lb}}{=} = \frac{0.0019 \text{ gr}}{\text{dscf}} \text{ (able to comply with NSPS)}$$

Based on NSPS Subpart DD limit of 0.01 gr/dscf, the allowable particulate emissions equate to 8.26 tons/yr = 1.89 lbs/hr

Note: SCFM =  $\frac{22000 \text{ acfm} * (460 + 68)}{22000 \text{ scfm}}$

**Baghouse F3 Controlling Internal Handling (Receiving Legs, Dry Leg, Shipping Leg) and Grain Cleaners**

Emissions include internal handling (receiving legs, dry leg, shipping leg) and grain cleaners

Controlled emissions from internal handling (receiving legs, dry leg, shipping leg) and grain cleaners = 36.09 tons/yr (after control)

**Process: Grain Receiving + Headhouse and Internal Handling + Rail or Truck Shipping + Grain Cleaning**

$$\frac{36.09 \text{ tons/yr (after control) } *}{525600 \text{ min/yr } *} \frac{2000 \text{ lb/ton } *}{27000 \text{ dscf/min}} \frac{7000 \text{ gr/lb}}{=} = \frac{0.0356 \text{ gr}}{\text{dscf}} \text{ (able to comply with NSPS)}$$

Based on NSPS Subpart DD limit of 0.01 gr/dscf, the allowable particulate emissions equate to 10.14 tons/yr = 2.31 lbs/hr

Note: SCFM =  $\frac{27000 \text{ acfm} * (460 + 68)}{27000 \text{ scfm}}$

**Baghouse F5 Controlling Baghouses F2 and F3**

Emissions include emissions from baghouses F2 and F3 included above and a 99% control efficiency for baghouse F5.

Emission from Baghouses F2 and F3 = 37.63 tons/yr (after control emissions from Baghouses F2 and F3)  
 Baghouse F5 Control Efficiency = 99.0%  
 Emission from Baghouse F5 = 0.38 tons/yr (after control emissions from Baghouse F5)

**Process: Emission from Baghouses F5**

$$\frac{0.38 \text{ tons/yr (after control) } *}{525600 \text{ min/yr } *} \frac{2000 \text{ lb/ton } *}{700 \text{ dscf/min}} \frac{7000 \text{ gr/lb}}{=} = \frac{0.0143 \text{ gr}}{\text{dscf}} \text{ (able to comply with NSPS)}$$

Based on NSPS Subpart DD limit of 0.01 gr/dscf, the allowable particulate emissions equate to 0.26 tons/yr = 0.06 lbs/hr

Note: SCFM =  $\frac{700 \text{ acfm} * (460 + 68)}{700 \text{ scfm}}$

**Total NSPS Subpart DD Allowable Emissions from Baghouses F1 through F5 = 28.04 tons/yr**

**Appendix A: Emissions Calculations  
Grain Storage Bins and Storage Piles  
Potential to Emit (PTE) PM, PM10, and PM2.5**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

Maximum Permanent Storage Capacity 11,884,437 bushels (permanent silos, bins, and storage pile systems)  
 Maximum Temporary Storage Capacity 1,000,000 bushels (temporary storage pile)

**Silos and Bins**

Storage Units	Maximum Capacity (bushels)
37 concrete silos	1,199,192
Bin 10 and Bin 11	1,004,000
Bin 20, Bin 21, and Bin 22	2,324,724
Bin D and Bin E	975,944
<b>TOTAL:</b>	<b>5,503,860</b>

Maximum Grain Throughput = 40,000,000 (bushels/year)\*  
 Bulk Density of Grain = 58 lbs/bushel  
 Maximum Grain Throughput = 1,160,000 (tons/year)

Process	Pollutant	Uncontrolled Emission Factor (lb/ton)	Maximum Throughput (tons/yr)	Uncontrolled Potential Emissions (tons/yr)
Storage	PM	0.025	1,160,000	14.50
	PM10	0.0063	1,160,000	3.65
	PM2.5	0.0011	1,160,000	0.64

**Methodology**

\*The maximum grain throughput of 40,000,000 bushels/year was calculated using the Guidance Memo from US EPA's Office of Air Quality Planning and Standards, dated November 14, 1995 for calculating PTE for county grain elevators. It is the maximum grain throughput of the source during the previous 5 years multiplied by an adjustment factor of 1.2.  
 Maximum Grain Throughput (tons/year) = [Maximum Grain Throughput (bushels/year)] \* [58 lbs/bushel] \* [ton/2000 lbs]  
 Potential Emissions (tons/yr) = [Emission Factor (lb/ton)] \* [Maximum Throughput (tons/yr)] \* [ton/2000 lbs]  
 Emission Factors are from US EPA's AP-42, Section 9.9.1 for Grain Elevators, Table 9.9.1-1, April 2003.

**Storage Piles**

Storage Piles	Maximum Capacity (bushels)
3 permanent storage piles with conveyors	6,380,577
1 temporary storage pile with lime base and filled by a portable auger	1,000,000
<b>TOTAL:</b>	<b>7,380,577</b>

Maximum Grain Throughput = 7,380,577 (bushels/year)  
 Bulk Density of Grain = 58 lbs/bushel  
 Maximum Grain Throughput = 214,037 (tons/year)

Process	Pollutant	Uncontrolled Emission Factor (lb/ton)	Maximum Throughput (tons/yr)	Uncontrolled Potential Emissions (tons/yr)
Pile Conveying*	PM	0.061	214,037	6.53
	PM10	0.034	214,037	3.64
	PM2.5	0.0058	214,037	0.62
Pile Loading**	PM	0.035	214,037	3.75
	PM10	0.0078	214,037	0.83
	PM2.5	0.0013	214,037	0.14
Total PM				10.27
Total PM10				4.47
Total PM2.5				0.76

**Methodology**

\*Emission factor pile conveying corresponds to headhouse and grain handling.  
 \*\*Emission factor pile loading corresponds to hopper truck receiving.  
 Maximum Grain Throughput (tons/year) = [Maximum Grain Throughput (bushels/year)] \* [58 lbs/bushel] \* [ton/2000 lbs]  
 Potential Emissions (tons/yr) = [Emission Factor (lb/ton)] \* [Maximum Throughput (tons/yr)] \* [ton/2000 lbs]  
 Emission Factors are from US EPA's AP-42, Section 9.9.1 for Grain Elevators, Table 9.9.1-1, April 2003.  
 It is the maximum grain throughput of the source during the previous 5 years multiplied by an adjustment factor of 1.2.  
 Maximum Grain Throughput (tons/year) = [Maximum Grain Throughput (bushels/year)] \* [58 lbs/bushel] \* [ton/2000 lbs]  
 Potential Emissions (tons/yr) = [Emission Factor (lb/ton)] \* [Maximum Throughput (tons/yr)] \* [ton/2000 lbs]  
 Emission Factors are from US EPA's AP-42, Section 9.9.1 for Grain Elevators, Table 9.9.1-1, April 2003.

**Appendix A: Emissions Calculations  
Natural Gas Combustion Only  
MM BTU/HR <100**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
41.80	366.17

Heat input capacity includes two (2) natural gas-fired grain dryers each rated at 20.9 MMBtu/hr.

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.35	1.39	1.39	0.11	18.31	1.01	15.38

\*PM emission factor is filterable PM only. PM10/PM2.5 emission factors are filterable and condensable combined.

\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	3.84E-04	2.20E-04	1.37E-02	0.33	6.22E-04

Emission Factor in lb/MMcf	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	9.15E-05	2.01E-04	2.56E-04	6.96E-05	3.84E-04	<b>0.35</b>

The five highest organic and metal HAPs emission factors are provided above.  
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Methodology**

All emission factors are based on normal firing.  
 MMBtu = 1,000,000 Btu  
 MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu  
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03  
 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**Appendix A: Emissions Calculations  
 Natural Gas Combustion Only  
 MM BTU/HR <100  
 Greenhouse Gas Emissions**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

Heat Input Capacity MMBtu/hr	HHV mmBtu/mmscf	Potential Throughput MMCF/yr
41.80	1000	366.17

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120000	2.3	2.2
Potential Emission in tons/yr	21,970	0.42	0.40
Summed Potential Emissions in tons/yr	21,971		
CO2e Total in tons/yr	22,104		

**Methodology**

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.  
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-030006-03 and 1-03-006-03  
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.  
 $Emission (tons/yr) = Throughput (MMCF/yr) \times Emission Factor (lb/MMCF) / 2,000 lb/ton$   
 $CO2e (tons/yr) = CO2 Potential Emission ton/yr \times CO2 GWP (1) + CH4 Potential Emission ton/yr \times CH4 GWP (21) + N2O Potential Emission ton/yr \times N2O GWP (310).$

**Appendix A: Emission Calculations**  
**Fugitive Dust Emissions - Unpaved Roads**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

**Unpaved Roads at Industrial Site**

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

Process	Maximum number of vehicles	Maximum Weight of Vehicle and Load (tons/trip)	Number of one-way trips per hour per vehicle	Maximum trips per year (trip/yr)	Total Weight driven per year (ton/yr)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/yr)
Heavy Duty Diesel - Large Truck (entering plant)	1	26	1.78	15593	405413	660	0.125	1949
Heavy Duty Diesel - Large Truck (leaving plant)	1	26	1.78	15593	405413	660	0.125	1949
Heavy Duty Diesel - Small Truck (entering plant)	1	12	3.55	31098	373176	660	0.125	3887
Heavy Duty Diesel - Small Truck (leaving plant)	1	12	3.55	31098	373176	660	0.125	3887
Light Duty Gas Car/Truck used by customers and employees (entering plant)	1	2	0.75	6570	13140	660	0.125	821
Light Duty Gas Car/Truck used by customers and employees (leaving plant)	1	2	0.75	6570	13140	660	0.125	821
<b>Total</b>				<b>106522</b>	<b>1583458</b>			<b>13315</b>

Average Vehicle Weight Per Trip =  $\frac{14.9}{0.125}$  tons/trip  
 Average Miles Per Trip =  $\frac{14.9}{0.125}$  miles/trip

Unmitigated Emission Factor,  $E_f = k \left[ \frac{s}{12} \right]^a \left[ \frac{W}{3} \right]^b$  (Equation 1a from AP-42 13.2.2)

	PM	PM10	
where k =	4.9	1.5	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-3 Sand/Gravel Processing Plant Road)
a =	0.7	0.9	= constant (AP-42 Table 13.2.2-2)
W =	14.9	14.9	tons = average vehicle weight (provided by source)
b =	0.45	0.45	= constant (AP-42 Table 13.2.2-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor,  $E_{ext} = E * [(365 - P)/365]$

Mitigated Emission Factor,  $E_{ext} = E * [(365 - P)/365]$

where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	1.57	0.40	0.40	lb/mile
Mitigated Emission Factor, $E_{ext} =$	1.03	0.26	0.26	lb/mile

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Heavy Duty Diesel - Large Truck (entering plant)	1.53	0.39	0.39	1.00	0.25	0.26
Heavy Duty Diesel - Large Truck (leaving plant)	1.53	0.39	0.39	1.00	0.25	0.26
Heavy Duty Diesel - Small Truck (entering plant)	3.05	0.78	0.78	2.00	0.51	0.51
Heavy Duty Diesel - Small Truck (leaving plant)	3.05	0.78	0.78	2.00	0.51	0.51
Light Duty Gas Car/Truck used by customers and employees (entering plant)	0.64	0.16	0.16	0.42	0.11	0.11
Light Duty Gas Car/Truck used by customers and employees (leaving plant)	0.64	0.16	0.16	0.42	0.11	0.11
<b>Totals</b>	<b>10.45</b>	<b>2.66</b>	<b>2.66</b>	<b>6.86</b>	<b>1.73</b>	<b>1.75</b>

**Methodology**

Maximum trips per year (trip/yr) = [Number of one-way trips per hour per vehicle] \* [Maximum number of vehicles] \* [8760 hours/year]  
 Total Weight driven per year (ton/yr) = [Maximum Weight of Vehicle and Load (tons/trip)] \* [Maximum trips per year (trip/yr)]  
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]  
 Maximum one-way miles (miles/yr) = [Maximum trips per year (trip/yr)] \* [Maximum one-way distance (mi/trip)]  
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per year (ton/yr)] / SUM[Maximum trips per year (trip/yr)]  
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/yr)] / SUM[Maximum trips per year (trip/yr)]  
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) \* (Unmitigated Emission Factor (lb/mile)) \* (ton/2000 lbs)  
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) \* (Mitigated Emission Factor (lb/mile)) \* (ton/2000 lbs)  
 Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) \* (1 - Dust Control Efficiency)

**Abbreviations**

PM = Particulate Matter  
 PM10 = Particulate Matter (<10 um)  
 PTE = Potential to Emit

**Appendix A: Emission Calculations  
Demonstration of Compliance with 326 IAC 6-3-2**

**Company Name:** ADM Grain Company - Logansport Terminal  
**Source Address:** 2626 S 275 W, Logansport, Indiana 46947  
**Permit No.:** 017-32464-00017  
**Reviewer:** Jack Harmon  
**Date:** November, 2012

Bulk Density of Grain = 58 lbs/bushel

**Allowable Emissions Under 326 IAC 6-3-2**

Control Device(s)	Emissions Unit Description	Maximum Grain Throughput (bushels/hr)	Maximum Process Weight (lbs/hr)	Maximum Process Weight (tons/hr)	Uncontrolled PM Emission Factor (lbs/ton)	PM Emissions Before Control (lbs/hr)	Control Efficiency (%)	PM Emissions After Control (lbs/hr)	NSPS Subpart DD Limited Emissions (lbs/hr)	326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr)	Subject to 326 IAC 6-3-2?
<b>Units Controlled by Baghouses</b>											
Baghouse F1	Receiving Pit #2	25,000	1,450,000	725	0.18	174.73	99.00%	1.75	2.14	73.50	No
	Reclaim System (Pit #1)	25,000	1,450,000	725	0.061						
	One (1) enclosed receiving conveyor serving Pit #2	25,000	1,450,000	725	0.061						
Baghouse F2	Receiving Pit #3	18,000	1,044,000	522	0.18	187.92	99.00%	1.88	1.89	69.47	No
	Receiving Pit #4	18,000	1,044,000	522	0.18						
Baghouse F3	One (1) receiving leg serving Pit #2	25,000	1,450,000	725	0.061	146.83	99.00%	1.47	2.31	69.47	No
	One (1) receiving leg serving Pit #3	18,000	1,044,000	522	0.061						
	One (1) receiving leg serving Pit #4	18,000	1,044,000	522	0.061						
	One (1) Dry Leg	18,000	1,044,000	522	0.061						
	One (1) Shipping Leg	40,000	2,320,000	1,160	0.061						
Baghouse F5	Baghouse F2	NA	NA	NA	NA	3.63	99.00%	0.04	0.06	NA	No
	Baghouse F3	NA	NA	NA	NA						

Control Device(s)	Emissions Unit Description	Maximum Grain Throughput (bushels/hr)	Maximum Process Weight (lbs/hr)	Maximum Process Weight (tons/hr)	Uncontrolled PM Emission Factor (lbs/ton)	PM Emissions Before Control (lbs/hr)	Control Efficiency (%)	PM Emissions After Control (lbs/hr)	NSPS Subpart DD Limit (gr/dscf)	326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr)	Subject to 326 IAC 6-3-2?	Is a Control Device Needed to Comply with 326 IAC 6-3-2?
<b>Headhouse and Internal Handling</b>												
Enclosed	Two (2) conveyors serving concrete silos	35,000	2,030,000	1015.0	0.061	61.92	90%	6.19	0.01	77.78	Yes	No
Enclosed	One (1) conveyor serving concrete silos	20,000	1,160,000	580.0	0.061	35.38	90%	3.54	0.01	70.75	Yes	No
Enclosed	One (1) distributor serving concrete silos	55,000	3,190,000	1,595	0.061	97.30	90%	9.73	0.01	83.78	Yes	No
Enclosed	One (1) distributor serving concrete silos	35,000	2,030,000	1,015	0.061	61.92	90%	6.19	0.01	77.78	Yes	No
Enclosed	One (1) distributor serving concrete silos	20,000	1,160,000	580	0.061	35.38	90%	3.54	0.01	70.75	Yes	No
Enclosed	One (1) reclaim conveyor serving concrete silos	40,000	2,320,000	1,160	0.061	70.76	90%	7.08	0.01	79.52	Yes	No
Enclosed	One (1) reclaim conveyor (bins 20, 21, 22, D and E)	40,000	2,320,000	1,160	0.061	70.76	90%	7.08	0.01	79.52	Yes	No
Enclosed	Two (2) fill conveyors (bins 10 and 11)	30,000	1,740,000	870	0.061	53.07	90%	5.31	0.01	75.80	Yes	No
Enclosed	One (1) fill conveyor (bins 10 and 11)	25,000	1,450,000	725	0.061	44.23	90%	4.42	0.01	73.50	Yes	No
Enclosed	One (1) shipping conveyor	40,000	2,320,000	1,160	0.061	70.76	90%	7.08	0.01	79.52	Yes	No
Enclosed	Three (3) fill conveyors (EF20, EF21, and EF22)	25,000	1,450,000	725	0.061	44.23	90%	4.42	0.01	73.50	Yes	No
Enclosed	Three (3) fill conveyors (WF20, WF21 and WF22)	35,000	2,030,000	1,015	0.061	61.92	90%	6.19	0.01	77.78	Yes	No
Enclosed	One (1) fill conveyor (WF23)	25,000	1,450,000	725	0.061	44.23	90%	4.42	0.01	73.50	Yes	No
Enclosed	One (1) fill conveyor (B37)	20,000	1,160,000	580	0.061	35.38	90%	3.54	0.01	70.75	Yes	No
--	Three (3) open fill conveyors serving three (3) storage piles	25,000	1,450,000	725	0.061	44.23	0%	44.23	0.01	73.50	Yes	No
--	Two (2) stationary cleaners	22,000	1,276,000	638	0.061	38.92	0.0%	38.92	0.01	71.92	Yes	No
<b>Grain Drying</b>												
--	Dryer #1	7,000	406,000	203	0.22	44.66	0.0%	44.66	NA	58.67	Yes	No
--	Dryer #2	4,000	232,000	116	0.22	25.52	0.0%	25.52	NA	52.78	Yes	No
--	One (1) Wet Leg	15,000	870,000	435	0.061	26.54	0.0%	26.54	0.01	67.30	Yes	No
<b>Grain Shipping</b>												
Loadout Spout	One (1) rail pit and drag claim reclaim system	5,000	290,000	145	0.061	8.85	0.0%	8.85	0.01	55.09	Yes	No
Enclosed and Loadout Spouts	One (1) truck loadout	5,000	290,000	145	0.086	12.47	80%	2.49	None (fugitive)	55.09	Yes	No
Loadout Spouts	One (1) rail loadout	40,000	2,320,000	1,160	0.027	31.32	90%	3.13	None (fugitive)	79.52	Yes	No
Loadout Spouts	Two (2) side draw truck loadout spouts	15,000	870,000	435	0.086	37.41	80%	7.48	None (fugitive)	67.30	Yes	No

The 326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hr) were calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:  
 $E = 55.0 P^{0.11} - 40$   
 where  
 E = rate of emission in pounds per hour and  
 P = process weight rate in tons per hour

When the process weight rate exceeds two hundred (200) tons per hour, the maximum allowable emission may exceed the emission rate derived by the equation above, provided the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

**Methodology**

Emission factors are from AP 42 Table 9.9.1-1 Particulate Emission Factors for Grain Elevators (4/03)  
 Maximum Process Weight (lbs/hr) = [Maximum Grain Throughput (bushels/hr)] \* [Bulk Density of Grain (lbs/bushel)]  
 Maximum Process Weight (tons/hr) = [Maximum Grain Throughput (bushels/hr)] \* [Bulk Density of Grain (lbs/bushel)] \* [ton/2000 lbs]  
 PM Emissions Before Control (lbs/hr) = [Maximum Process Weight (tons/hr)] \* [Uncontrolled PM Emission factor (lbs/ton)]  
 PM Emissions After Control (lbs/hr) = [Maximum Process Weight (tons/hr)] \* [Uncontrolled PM Emission factor (lbs/ton)] \* [1- Control Efficiency (%)]



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** Karena S. Musgrave  
ADM Grain Company / Logansport Terminal  
2626 S 275 W  
Logansport, Indiana 46947

**DATE:** December 4, 2012

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
FESOP  
017-32464-00017

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Jeffrey Becker, Responsible Official  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact [Joanne Smiddie-Brush](mailto:Joanne.Smiddie-Brush@idem.IN.gov) of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

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2		Jeffrey J Becker VP - NA Grain Ops ADM Grain Company-Logansport Terminal 4666 Faries Pkwy Decatur IL 62526 (RO CAATS)									
3		Mr. Harry D. DuVall P.O. Box 147 Idaville IN 47950 (Affected Party)									
4		Cass County Board of Commissioner 200 Court Park Logansport IN 46947 (Local Official)									
5		Cass County Health Department 512 High Street Logansport IN 46947-2766 (Health Department)									
6		Logansport City Council and Mayors Office 601 Broadway Logansport IN 46947 (Local Official)									
7		Mr. Robert Kelley 2555 S 30th Street Lafayette IN 44909 (Affected Party)									
8		Mr. Tim Thomas c/o Boilermakers Local 374 6333 Kennedy Ave. Hammond IN 46333 (Affected Party)									
9		Ms. Kristin Reynolds ADM Grain Company 4666 Faries Pkwy Decatur IL 62526 (Source ? addl contact)									
10		Kurt Brandstatter Central Paving, Inc. P.O. Box 357 Logansport IN 46947 (Affected Party)									
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